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### Figure 1A

Identity to SeqID No:1 is indicated by a dot. Gap is indicated by a dash.

```
                *           20           *
Seqid1 : ATGACTGTGACGATAGCAATCAATTCACAA : 30
Seqid3 : ..... : 30
```

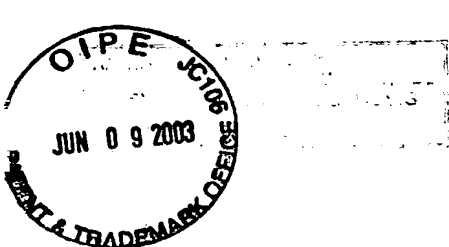
```
                40           *           60
Seqid1 : AATCAAAAACCCATCAAGCGATTGGGCTTG : 60
Seqid3 : ..... : 60
```

```
                *           80           *
Seqid1 : ATTTTGGTGTGATCACCATTGCATTTTG : 90
Seqid3 : ..... : 90
```

```
                100           *           120
Seqid1 : GCAGGATGTGCCAGTAAGCCAACCTATAAT : 120
Seqid3 : ..... : 120
```

```
                *           140           *
Seqid1 : AGTACCTCAGGTTCGGGCAGTCATCGTACT : 150
Seqid3 : ..... : 150
```

```
                160           *           180
Seqid1 : TCAGGTTTCAGGTGGTTTGGCAATAGGTTCA : 180
Seqid3 : ..... : 180
```



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Figure 1B

\* 200 \*

Seqid1 : CAGGTTATCACGGACAGTCAGGGCGTACCA : 210  
Seqid3 : ..... : 210

220 \* 240

Seqid1 : AATCGCTATCAGGTGAAGCAGGGCGATACT : 240  
Seqid3 : ..... : 240

\* 260 \*

Seqid1 : GTCAGTAAGATTGCTCAGCGTTATGGATTA : 270  
Seqid3 : ..... : 270

280 \* 300

Seqid1 : AATTGGCGTGAGATTGGACACATTAATAAT : 300  
Seqid3 : ..... : 300

\* 320 \*

Seqid1 : CTAAATAGCAGTTATACGATTTATACAGGT : 330  
Seqid3 : .....G..... : 330

340 \* 360

Seqid1 : CAATGGCTGACTTTATGGTCAGGTGATCTC : 360  
Seqid3 : ..... : 360

\* 380 \*

Seqid1 : AAGGTGCGTGAGCGTAGTATCAGCTCTGGT : 390  
Seqid3 : ..... : 390



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Figure 1C

400 \* 420  
Seqid1 : GTGAATACAGCTCACACACCTTCGCCTGTG : 420  
Seqid3 : ..... : 420

\* 440 \*  
Seqid1 : GCGGTTTCAGTCAAGCAGACCACCGTACAG : 450  
Seqid3 : ..... : 450

460 \* 480  
Seqid1 : CAGCATCCTGCCGTACAAAAACCCACGCCA : 480  
Seqid3 : ..... : 480

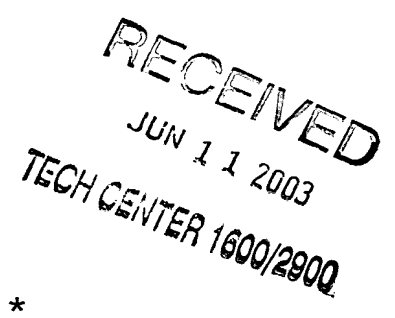
\* 500 \*  
Seqid1 : CCTGTTGTTGTGGTAAAAAACCCACACCG : 510  
Seqid3 : ..... : 510

520 \* 540  
Seqid1 : ACTCCGCCTGTGGTTCAGCAGCCAGCACCA : 540  
Seqid3 : ..... : 540

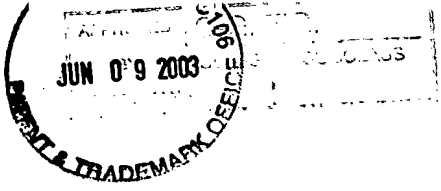
\* 560 \*  
Seqid1 : GTTGCCCCACCGAGTGACAGAAGCACCATTT : 570  
Seqid3 : ..... : 570

580 \* 600  
Seqid1 : GCCACGGGTAGCTCAGGGGTGATGCAATTT : 600  
Seqid3 : ..... : 600





```
Seqid1  : CTTAAATAG  : 969
Seqid3  : .....---  : 966
```

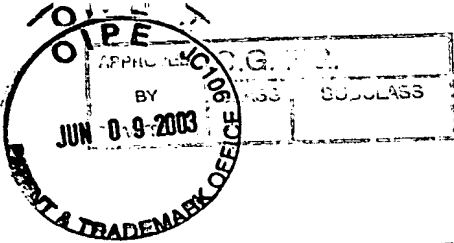


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# Figure 2A

Identity to SeqID No:2 is indicated by a dot. Gap is indicated by a dash.

|        |     |                                |     |     |
|--------|-----|--------------------------------|-----|-----|
|        | *   | 20                             | *   |     |
| Seqid2 | :   | MTVTIAINSQNQKPIKRLGLIFGVITTCIL | :   | 30  |
| Seqid4 | :   | .....                          | :   | 30  |
|        | 40  | *                              | 60  |     |
| Seqid2 | :   | AGCASKPTYNSTSGSGSHRTSGSGGLAIGS | :   | 60  |
| Seqid4 | :   | .....                          | :   | 60  |
|        | *   | 80                             | *   |     |
| Seqid2 | :   | QVITDSQGVPNRYQVKQGDTVSKIAQRYGL | :   | 90  |
| Seqid4 | :   | .....                          | :   | 90  |
|        | 100 | *                              | 120 |     |
| Seqid2 | :   | NWREIGHINNLNSSYTIYTGQWLTLWSGDL | :   | 120 |
| Seqid4 | :   | .....G.....                    | :   | 120 |
|        | *   | 140                            | *   |     |
| Seqid2 | :   | KVRERSISSGVNTAHTPSPVAVQSSRPPVQ | :   | 150 |
| Seqid4 | :   | .....                          | :   | 150 |
|        | 160 | *                              | 180 |     |
| Seqid2 | :   | QHPAVQKPTPPVVVKKPTPTPPVVQQPAP  | :   | 180 |
| Seqid4 | :   | .....                          | :   | 180 |



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Figure 2B

\* 200 \*

Seqid2 : VAPPVTEAPFATGSSGVMQFRYPVGATNPV : 210  
Seqid4 : ..... : 210

220 \* 240

Seqid2 : VRRFGTATVAGSTVTSNGMWFSGRDGD LIN : 240  
Seqid4 : ..... : 240

\* 260 \*

Seqid2 : ASNAGTVIQADHNMDGASIVIQHTNGFVSS : 270  
Seqid4 : ..... : 270

280 \* 300

Seqid2 : YIHIKDAQVKTGDTVRTGQRIASMKNQPSG : 300  
Seqid4 : ..... : 300

\* 320

Seqid2 : AALFEFRISRNGVYVDPLTVLK : 322  
Seqid4 : ..... : 322



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**Figure 3A    Figure 3B**

